

CDBF0320/0330/0340

$I_o = 350$ mA

$V_R = 20$ to 40 Volts

RoHS Device

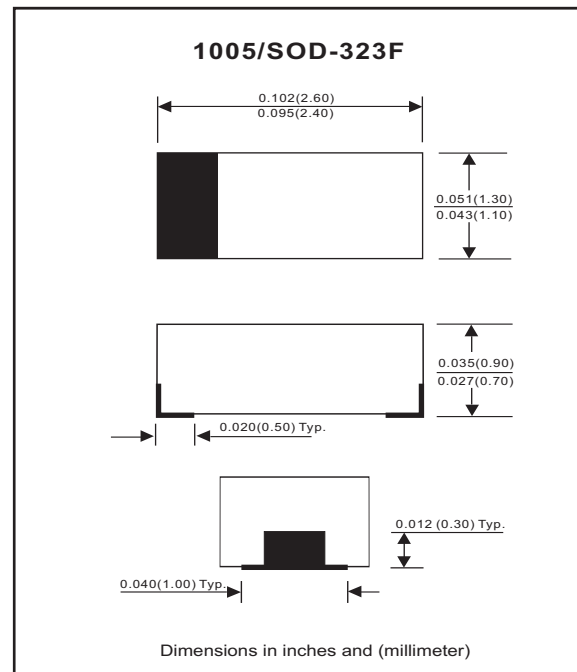


Features

- Low forward voltage.
- Designed for mounting on small surface.
- Extremely thin / leadless package.
- Majority carrier conduction.

Mechanical data

- Case: 1005/SOD-323F standard package molded plastic.
- Terminals: Gold plated, solderable per MIL-STD-750, method 2026.
- Polarity: Indicated by cathode band.
- Mounting position: Any
- Weight: 0.006 gram(approx.).



Maximum Rating (at $T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	CDBF0320	CDBF0330	CDBF0340	Unit
Repetitive Peak reverse voltage Reverse voltage	V_{RRM} V_R	20	30	40	V
RMS reverse voltage	$V_{R(RMS)}$	14	21	28	V
Average forward rectified current	I_o	350			mA
Forward current, surge peak 8.3 ms single half sine-wave	I_{FSM}	1.5			A
Power dissipation	P_D	200			mW
Thermal resistance junction to ambient air	$R_{\theta JA}$	500			$^\circ\text{C}/\text{W}$
Storage temperature	T_{STG}	-65 TO +125			$^\circ\text{C}$
Junction temperature	T_j	+125			$^\circ\text{C}$

Electrical Characteristics (at $T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Reverse current CDBF0320 CDBF0330 CDBF0340	$V_R = 10\text{V}$ $V_R = 20\text{V}$ $V_R = 30\text{V}$	I_R			5 5 5	μA
Forward voltage	$I_F = 20\text{mA}$ $I_F = 200\text{mA}$	V_F			0.37 0.60	V
Capacitance between terminals	$f = 1$ MHz, and 0 VDC reverse voltage	C_T		50		pF
Reverse recovery time	$I_F=I_R=10\text{mA}, I_{rr}=0.1 \times I_R, R_L=100$ ohm	T_{rr}		6.4		nS

RATING AND CHARACTERISTIC CURVES (CDBF0320/0330/0340)

Fig. 1 - Forward characteristics

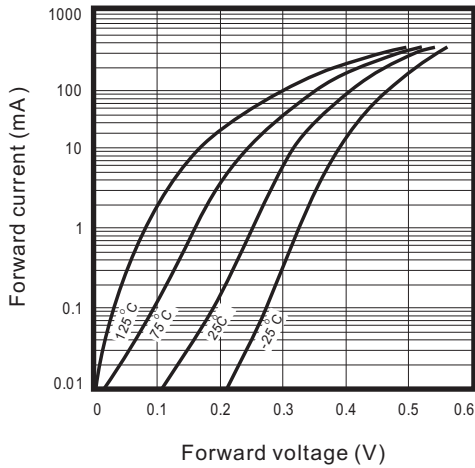


Fig. 2 - Reverse characteristics

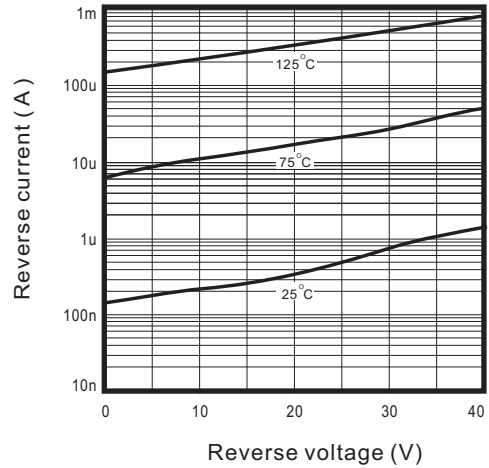


Fig.3 - Capacitance between terminals characteristics

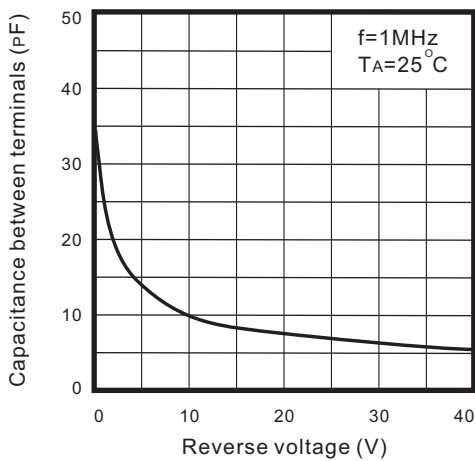
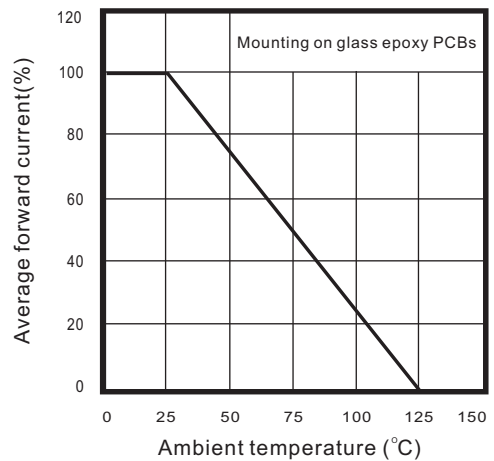


Fig.4 - Current derating curve



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